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<110> Regeneron Pharmaceuticals, Inc.

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<150> US 62/449,335

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<150> US 62/581,918

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<160> 1652

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gtgcccagcc tttttttttt taatagaaaa aataatccga ctcccactac atcaagacta	2280
atcttgtttt gtgtgttttt cacatgtatt atagaatgct tttgcatgga ctatcctctt	2340

gtttttatta aaaacaaatg attttttttaa aagtcacaaa aacaattcac taaaaataaa	2400
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 <223> Exon 6v3

<220>
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 <222> (878)..(1715)
 <223> Read-through from exon 6 into intron 6

<220>
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 <223> Read-through from exon 6 into intron 6

<400> 9

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tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg	180
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gacagagcat attggttctg tgggatatta ataagcgcg tgtggaggaa actgcagctg	300
agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag	360
agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga	420
ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca	480
agacatttga ggtcaacatc ctaggacatt tttggatcac aaaagcactt cttccatcga	540
tgatggagag aaatcatggc cacatcgtca cagtggcttc agtgtgcggc cacgaaggga	600
ttccttacct catcccatat tgttccagca aatttgccgc tgttggcttt cacagaggtc	660
tgacatcaga acttcaggcc ttgggaaaaa ctggtatcaa aacctcatgt ctctgcccag	720
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cagatgaagt cgtaagaagt ctgatagatg gaatacttac caataagaaa atgatttttg	840
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actctgtcac cctggctgga ttgcggtggt tgcagtggca tgatcttggc tcaactgcaac	1020
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ggtgtgtgct gccacactac acccagctaa tttttgtatt ttttgataga gacaggtttc	1140
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cccaaagtgc tgggattaca gtcattgagcc accatgcctg gcccaataga gctattatta	1260
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acaatattga gttttctaata ccaagaacat aatatctatt tttaaaatct tcttcaaaat	1620

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<220>
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 <223> Exon 3

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 <222> (515)..(652)
 <223> Exon 5

<220>
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 <222> (653)..(770)
 <223> Exon 6v2 - includes additional residue 770 at 3' end

<220>
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 <223> Exon 7

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tggagtcgtt ggtgaagttt ttcatctctc agaggagaaa atctgtggct ggggagattg	180
ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa ttgcaaaac	240
gacagagcat attggttctg tgggatatta ataaggtgaa gaaagaagtg ggtgatgtaa	300
caatcgtggg gaataatgct gggacagtat atccagccga tcttctcagc accaaggatg	360

aagagattac caagacat	ttt	gaggtcaaca	tcctaggaca	tttttggatc	acaaaagcac	420
tttttccatc gatgatggag	agaaatcatg	gccacatcgt	cacagtggct	tcagtgtgcg		480
gccacgaagg gattccttac	ctcatcccat	attgtttccag	caaatttgcc	gctgtttggct		540
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gtctctgccc agtttttgtg	aatactgggt	tcaccaaaaa	tccaagcaca	agattatggc		660
ctgtatttga gacagatgaa	gtcgtaaaga	gtctgataga	tggaatactt	accaataaga		720
aaatgat	ttt	tgttccatcg	tatatcaata	tctttctgag	actacagaag	780
gaa	cg	cct	ga	at	ttt	840
gaacgcgcct cagcgat	ttt	aaatcgatg	cagaatattc	aatttgaagc	agtggttggc	840
cacaaaaatca aaatgaa	atg	aataaataag	ctccagccag	agatgtatgc	atgataatga	900
tatgaatagt ttcgaatcaa	tgctgcaaag	ctttatttca	cattttttca	gtcctgataa		960
tattaaaaac attggtttgg	cactagcagc	agtcaaacga	acaagattaa	ttacctgtct		1020
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ttaaaaaactt ctgtgcttac	ataaacatac	ttaaaagggt	ttctttaaga	tattttat		1140
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acacagggaa ggtttaagac	tgttcaagta	gcattccaat	ctgtagccat	gccacagaat		1260
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cccatgataa cttttttctt	tgtaatttat	gctttcatat	atccttggtc	ccagagatgt		1620
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tcctgcctca gcctcctgag	tagctgggac	tacaggcgcc	cgccaccaca	cccggcta		1920
tttttg	tatt	ttttgtagag	acgggggtttc	accatgttag	ccaagatggt	1980

tgacctcgtg atccacctgc ctcggcctcc caaagtgctg ggattacggg tgtgagccac	2040
cgtgcccagc cttttttttt ttaatagaaa aaataatccg actcccacta catcaagact	2100
aatcttgttt tgtgtgtttt tcacatgtat tatagaatgc ttttgcattg actatcctct	2160
tgtttttatt aaaaacaaat gattttttta aaagtcacaa aaacaattca ctaaaaataa	2220
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<210> 11
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<220>
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 <222> (588)..(694)
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<220>
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 <222> (695)..(832)
 <223> Exon 5

<220>
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 <222> (833)..(950)
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<221> misc_feature

<222> (951)..(2470)

<223> Exon 7

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tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg	180
ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac	240
gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg	300
agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag	360
agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga	420
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ttcttccatc gatgatggag agaaatcatg gccacatcgt cacagtggct tcagtgtgcg	660
gccacgaagg gattccttac ctcatcccat attgttccag caaatttgcc gctgttggct	720
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 <211> 300
 <212> PRT
 <213> Homo sapiens

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<220>
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Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
 20 25 30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
 35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
 50 55 60

Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
 65 70 75 80

Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
 85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
 100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
210 215 220

Phe Thr Lys Asn Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp
225 230 235 240

Glu Val Val Arg Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met
245 250 255

Ile Phe Val Pro Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Phe
260 265 270

Leu Pro Glu Arg Ala Ser Ala Ile Leu Asn Arg Met Gln Asn Ile Gln
275 280 285

Phe Glu Ala Val Val Gly His Lys Ile Lys Met Lys
290 295 300

<210> 13
<211> 264
<212> PRT
<213> Homo sapiens

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<400> 13

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Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Leu Ile Thr Ile Ile Tyr
1           5           10           15

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Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
          20           25           30

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Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
          35           40           45

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Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
          50           55           60

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Leu Trp Asp Ile Asn Lys Val Lys Lys Glu Val Gly Asp Val Thr Ile
65           70           75           80

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Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp Leu Leu Ser Thr

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85

90

95

Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn Ile Leu Gly His
 100 105 110

Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met Glu Arg Asn His
 115 120 125

Gly His Ile Val Thr Val Ala Ser Val Cys Gly His Glu Gly Ile Pro
 130 135 140

Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe His
 145 150 155 160

Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys Thr Gly Ile Lys
 165 170 175

Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly Phe Thr Lys Asn
 180 185 190

Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp Glu Val Val Arg
 195 200 205

Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met Ile Phe Val Pro
 210 215 220

Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Phe Leu Pro Glu Arg
 225 230 235 240

Ala Ser Ala Ile Leu Asn Arg Met Gln Asn Ile Gln Phe Glu Ala Val
 245 250 255

Val Gly His Lys Ile Lys Met Lys
 260

<210> 14

<211> 261

<212> PRT

<213> Homo sapiens

<220>

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<400> 14

Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Leu Ile Thr Ile Ile Tyr
1 5 10 15

Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
20 25 30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
50 55 60

Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
65 70 75 80

Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
210 215 220

Phe Thr Lys Asn Pro Ser Thr Arg Phe Leu Pro Glu Arg Ala Ser Ala
225 230 235 240

Ile Leu Asn Arg Met Gln Asn Ile Gln Phe Glu Ala Val Val Gly His
245 250 255

Lys Ile Lys Met Lys
260

<210> 15
<211> 274
<212> PRT
<213> Homo sapiens

<220>
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<222> (107)..(150)

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<221> MISC_FEATURE

<222> (233)..(271)

<223> Region Encoded by Exon 6v2

<220>

<221> MISC_FEATURE

<222> (272)..(274)

<223> Region Encoded by Exon 7

<400> 15

Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Leu Ile Thr Ile Ile Tyr
1 5 10 15

Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
20 25 30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
50 55 60

Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
65 70 75 80

Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
210 215 220

Phe Thr Lys Asn Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp
225 230 235 240

Glu Val Val Arg Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met
245 250 255

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Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
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Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
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Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
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Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
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Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
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Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
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Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
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Ile Leu Gly His Phe Trp Asn Gly Lys Asp Ile Arg Ser Asn Tyr Leu
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Asp Val Tyr Arg Ile Glu Asp Thr Phe Gly Arg Asp Ser Glu Ile Thr
165 170 175

Lys Ala Leu Leu Pro Ser Met Met Glu Arg Asn His Gly His Ile Val
180 185 190

Thr Val Ala Ser Val Cys Gly His Glu Gly Ile Pro Tyr Leu Ile Pro
195 200 205

Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe His Arg Gly Leu Thr
210 215 220

Ser Glu Leu Gln Ala Leu Gly Lys Thr Gly Ile Lys Thr Ser Cys Leu
225 230 235 240

Cys Pro Val Phe Val Asn Thr Gly Phe Thr Lys Asn Pro Ser Thr Arg
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Leu Trp Pro Val Leu Glu Thr Asp Glu Val Val Arg Ser Leu Ile Asp
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Gly Ile Leu Thr Asn Lys Lys Met Ile Phe Val Pro Ser Tyr Ile Asn
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Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
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Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
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Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
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Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
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Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
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Phe Thr Lys Asn Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp
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Glu Val Val Arg Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met
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Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
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Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
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Leu Trp Asp Ile Asn Lys Val Lys Lys Glu Val Gly Asp Val Thr Ile
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Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp Leu Leu Ser Thr
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Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn Ile Leu Gly His
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Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met Glu Arg Asn His
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Gly His Ile Val Thr Val Ala Ser Val Cys Gly His Glu Gly Ile Pro
130 135 140

Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe His
145 150 155 160

Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys Thr Gly Ile Lys

165

170

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Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly Phe Thr Lys Asn
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Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp Glu Val Val Arg
 195 200 205

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Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Val Ser Ser
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35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
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Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
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Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
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Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
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Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Asn Gly Lys Asp Ile Arg Ser Asn Tyr Leu
145 150 155 160

Asp Val Tyr Arg Ile Glu Asp Thr Phe Gly Arg Asp Ser Glu Ile Thr

165

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175

Lys Ala Leu Leu Pro Ser Met Met Glu Arg Asn His Gly His Ile Val
 180 185 190

Thr Val Ala Ser Val Cys Gly His Glu Gly Ile Pro Tyr Leu Ile Pro
 195 200 205

Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe His Arg Gly Leu Thr
 210 215 220

Ser Glu Leu Gln Ala Leu Gly Lys Thr Gly Ile Lys Thr Ser Cys Leu
 225 230 235 240

Cys Pro Val Phe Val Asn Thr Gly Phe Thr Lys Asn Pro Ser Thr Arg
 245 250 255

Leu Trp Pro Val Leu Glu Thr Asp Glu Val Val Arg Ser Leu Ile Asp
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Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Ile Thr Ile Ile Tyr
1 5 10 15

Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
20 25 30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
50 55 60

Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
65 70 75 80

Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
210 215 220

Phe Thr Lys Asn Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp
225 230 235 240

Glu Val Val Arg Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met
245 250 255

Ile Phe Val Pro Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Phe
260 265 270

Leu Pro Glu Arg Ala Ser Ala Ile Leu Asn Arg Met Gln Asn Ile Gln
275 280 285

Phe Glu Ala Val Val Gly His Lys Ile Lys Met Lys
290 295 300

<210> 241
<211> 264
<212> PRT
<213> Homo sapiens

<400> 241

Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Leu Ile Thr Ile Ile Tyr

1	5	10	15
Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys	20	25	30
Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile	35	40	45
Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val	50	55	60
Leu Trp Asp Ile Asn Lys Val Lys Lys Glu Val Gly Asp Val Thr Ile	65	70	75
Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp Leu Leu Ser Thr	85	90	95
Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn Ile Leu Gly His	100	105	110
Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met Glu Arg Asn His	115	120	125
Gly His Ile Val Thr Val Ala Ser Val Cys Gly His Glu Gly Ile Pro	130	135	140
Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe His	145	150	155
Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys Thr Gly Ile Lys	165	170	175
Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly Phe Thr Lys Asn	180	185	190
Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp Glu Val Val Arg	195	200	205
Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met Ile Phe Val Pro	210	215	220

Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Phe Leu Pro Glu Arg
225 230 235 240

Ala Ser Ala Ile Leu Asn Arg Met Gln Asn Ile Gln Phe Glu Ala Val
245 250 255

Val Gly His Lys Ile Lys Met Lys
260

<210> 242
<211> 300
<212> PRT
<213> Homo sapiens

<400> 242

Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Ile Thr Ile Ile Tyr
1 5 10 15

Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
20 25 30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
50 55 60

Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
65 70 75 80

Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
210 215 220

Phe Thr Lys Asn Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp
225 230 235 240

Glu Val Val Arg Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met
245 250 255

Ile Phe Val Pro Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Phe
260 265 270

Leu Pro Glu Arg Ala Ser Ala Ile Leu Asn Arg Met Gln Asn Ile Gln
275 280 285

Phe Glu Ala Val Val Gly His Lys Ile Lys Met Lys
290 295 300

<210> 243
<211> 264
<212> PRT
<213> Homo sapiens

<400> 243

Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Leu Ile Thr Ile Ile Tyr
1 5 10 15

Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys

20

25

30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
 35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
 50 55 60

Leu Trp Asp Ile Asn Lys Val Lys Lys Glu Val Gly Asp Val Thr Ile
 65 70 75 80

Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp Leu Leu Ser Thr
 85 90 95

Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn Ile Leu Gly His
 100 105 110

Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met Glu Arg Asn His
 115 120 125

Gly His Ile Val Thr Val Ala Ser Val Cys Gly His Glu Gly Ile Pro
 130 135 140

Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe His
 145 150 155 160

Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys Thr Gly Ile Lys
 165 170 175

Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly Phe Thr Lys Asn
 180 185 190

Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp Glu Val Val Arg
 195 200 205

Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met Ile Phe Val Pro
 210 215 220

Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys Phe Leu Pro Glu Arg
 225 230 235 240

Ala Ser Ala Ile Leu Asn Arg Met Gln Asn Ile Gln Phe Glu Ala Val
245 250 255

Val Gly His Lys Ile Lys Met Lys
260

<210> 244
<211> 2397
<212> DNA
<213> Homo sapiens

<400> 244
agacagtacc tcctccctag gactacacaa ggactgaacc agaaggaaga ggacagagca 60
aagccatgaa catcatccta gaaatccttc tgcttctgat caccatcatc tactcctact 120
tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg 180
ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac 240
gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg 300
agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag 360
agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga 420
ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca 480
agacatttga ggtcaacatc ctaggacatt tttggatcac aaaagcactt cttccatcga 540
tgatggagag aaatcatggc cacatcgtca cagtggcttc agtgtgcggc cacgaaggga 600
ttccttacct catcccatat tgttccagca aatttgccgc tgttggcttt cacagaggtc 660
tgacatcaga acttcaggcc ttgggaaaaa ctggtatcaa aacctcatgt ctctgcccag 720
tttttgtgaa tactgggttc accaaaaatc caagcacaag attatggcct gtattggaga 780
cagatgaagt cgtaagaagt ctgatagatg gaatacttac caataagaaa atgatttttg 840
ttccatcgta tatcaatatc tttctgagac tacagaagtt tcttcctgaa cgcgccctcag 900
cgattttaaa tcgtatgcag aatattcaat ttgaagcagt ggttggccac aaaatcaaaa 960
tgaaatgaat aaataagctc cagccagaga tgtatgcatg ataatgatat gaatagtttc 1020
gaatcaatgc tgcaaagctt tatttcacat tttttcagtc ctgataatat taaaaacatt 1080
ggtttggcac tagcagcagt caaacgaaca agattaatta cctgtcttcc tgttttctcaa 1140
gaatattttac gtagtttttc ataggtctgt ttttcctttc atgcctctta aaaacttctg 1200

tgcttacata aacataactta aaagggttttc ttttaagatat tttattttttc catttaaagg	1260
tggacaaaag ctacctccct aaaagtaaata acaaagagaa cttattttaca cagggaaggt	1320
ttaagactgt tcaagtagca ttccaatctg tagccatgcc acagaatatc aacaagaaca	1380
cagaatgagt gcacagctaa gagatcaagt ttcagcaggc agctttatct caacctggac	1440
atattttaag attcagcatt tgaaagattt ccctagcctc ttccttttttc attagcccaa	1500
aacggtgcaa ctctattctg gactttatta cttgattctg tcttctgtat aactctgaag	1560
tccacaaaa gtggaccctc tatatttcct ccctttttat agtcttataa gatacattat	1620
gaaaggtagc cgactctatt ttaaatctca gaattttaag ttctagcccc atgataacct	1680
ttttctttgt aatttatgct ttcatatatc cttgggtccca gagatgttta gacaatttta	1740
ggctcaaaaa ttaaagctaa cacaggaaaa ggaactgtac tggctattac ataagaaaca	1800
atggacccaa gagaagaaaa ggaagaaaga aagggtttttt ggtttttggt ttgttttggt	1860
ttgttttttg tttttttgag atggagtctc actctttcgc ccaggctgga gtgcagtggc	1920
atgatctcag ctactgcaa gctccacctc ccgggttcac gccattctcc tgcctcagcc	1980
tcctgagtag ctgggactac aggcgccccgc caccacaccc ggctaatttt ttgtattttt	2040
tgtagagacg gggtttcacc atgttagcca agatgggtctc gatctcctga cctcgtgac	2100
cacctgcctc ggctcccaa agtgctggga ttacgggtgt gagccaccgt gcccagcctt	2160
ttttttttta atagaaaaaa taatccgact cccactacat caagactaat cttgttttgt	2220
gtgtttttca catgtattat agaatgcttt tgcatggact atcctcttgt ttttattaaa	2280
aacaaatgat ttttttaaaa gtcacaaaaa caattcacta aaaataaata tgtcattgtg	2340
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<210> 245
 <211> 2289
 <212> DNA
 <213> Homo sapiens

<400> 245	
agacagtacc tcctccctag gactacacaa ggactgaacc agaaggaaga ggacagagca	60
aagccatgaa catcatccta gaaatccttc tgcttctgat caccatcatc tactcctact	120
tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg	180

ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac	240
gacagagcat attggttctg tgggatatta ataaggtgaa gaaagaagtg ggtgatgtaa	300
caatcgtggg gaataatgct gggacagtat atccagccga tcttctcagc accaaggatg	360
aagagattac caagacattt gaggtcaaca tcctaggaca tttttggatc acaaaagcac	420
ttcttccatc gatgatggag agaaatcatg gccacatcgt cacagtggct tcagtgtgcg	480
gccacgaagg gattccttac ctcatcccat attgttccag caaatttgcc gctgttggct	540
ttcacagagg tctgacatca gaacttcagg ctttgggaaa aactggtatc aaaacctcat	600
gtctctgccc agtttttgtg aatactgggt tcaccaaaaa tccaagcaca agattatggc	660
ctgtattgga gacagatgaa gtcgtaagaa gtctgataga tggaatactt accaataaga	720
aaatgatttt tgttccatcg tatatcaata tctttctgag actacagaag tttcttcctg	780
aacgcgcctc agcgatttta aatcgtatgc agaatttca atttgaagca gtggttggcc	840
acaaaatcaa aatgaaatga ataaataagc tccagccaga gatgtatgca tgataatgat	900
atgaatagtt tcgaatcaat gctgcaaagc tttatttcac attttttcag tcctgataat	960
attaaaaaca ttggtttggc actagcagca gtcaaacgaa caagattaat tacctgtctt	1020
cctgtttctc aagaatattt acgtagtttt tcataggtct gtttttcctt tcatgcctct	1080
taaaaacttc tgtgcttaca taaacatact taaaaggttt tctttaagat attttatttt	1140
tccatttaaa ggtggacaaa agctacctcc ctaaaagtaa atacaaagag aacttattta	1200
cacaggggaag gttaagact gttcaagtag cattccaatc tgtagccatg ccacagaata	1260
tcaacaagaa cacagaatga gtgcacagct aagagatcaa gtttcagcag gcagctttat	1320
ctcaacctgg acatatttta agattcagca tttgaaagat ttccctagcc tcttcctttt	1380
tcattagccc aaaacggtgc aactctattc tggactttat tacttgattc tgtcttctgt	1440
ataactctga agtccaccaa aagtggaccc tctatatttc ctcccttttt atagtcttat	1500
aagatacatt atgaaagggt accgactcta ttttaaatct cagaatttta agttctagcc	1560
ccatgataac ctttttcttt gtaatttatg ctttcatata tccttgggtcc cagagatggt	1620
tagacaattt taggctcaaa aattaaagct aacacaggaa aaggaactgt actggctatt	1680
acataagaaa caatggaccc aagagaagaa aaggaagaaa gaaaggtttt ttggtttttg	1740
ttttgttttg ttttgttttt tgtttttttg agatggagtc tcactctttc gcccaggctg	1800

gagtgcagtg gtatgatctc agctcactgc aagctccacc tcccgggttc acgccattct	1860
cctgcctcag cctcctgagt agctgggact acaggcgccc gccaccacac ccggctaatt	1920
ttttgtatatt tttgtagaga cgggggtttca ccatgttagc caagatggtc tcgatctcct	1980
gacctcgtga tccacctgcc tcggcctccc aaagtgctgg gattacgggt gtgagccacc	2040
gtgcccagcc tttttttttt taatagaaaa aataatccga ctcccactac atcaagacta	2100
atcttgTTTT gtgtgtTTTT cacatgtatt atagaatgct ttgcatgga ctatcctctt	2160
gtttttatta aaaacaaatg atttttttaa aagtcacaaa aacaattcac taaaaataaa	2220
tatgtcattg tgctttaaaa aaataacctc ttgtagttat aaaataaaac gtttgacttc	2280
taaactctg	2289

<210> 246
 <211> 1714
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(275)
 <223> Exon 1

<220>
 <221> misc_feature
 <222> (276)..(383)
 <223> Exon 2

<220>
 <221> misc_feature
 <222> (384)..(515)
 <223> Exon 3

<220>
 <221> misc_feature
 <222> (516)..(622)
 <223> Exon 4

<220>
 <221> misc_feature
 <222> (623)..(760)
 <223> Exon 5

<220>
 <221> misc_feature
 <222> (761)..(1714)
 <223> Exon 6v4

<220>

<221> misc_feature

<222> (878)..(1714)

<223> Read-through from exon 6 into intron 6

<400> 246

agacagtacc tcctccctag gactacacaa ggactgaacc agaaggaaga ggacagagca	60
aagccatgaa catcatccta gaaatccttc tgcttctgat caccatcatc tactcctact	120
tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg	180
ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa ttgcaaaac	240
gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg	300
agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag	360
agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga	420
ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca	480
agacatttga ggtcaacatc ctaggacatt tttggatcac aaaagcactt cttccatcga	540
tgatggagag aaatcatggc cacatcgtca cagtggcttc agtgtgcggc cacgaaggga	600
ttccttacct catcccatat tgttccagca aatttgccgc tgttggcttt cacagaggtc	660
tgacatcaga acttcaggcc ttgggaaaaa ctggtatcaa aacctcatgt ctctgccag	720
tttttgtgaa tactgggttc accaaaaatc caagcacaag attatggcct gtattggaga	780
cagatgaagt cgtaagaagt ctgatagatg gaatacttac caataagaaa atgatttttg	840
ttccatcgta tatcaatatc tttctgagac tacagaagta agtacagcac agaacacca	900
aataactaaaa caccaataga gctttttttt ttgctttttt tttttttaga cagagtctca	960
ctctgtcacc ctggctggat tgcggtggtt gcagtggcat gatcttggct cactgcaacc	1020
tccgcctcct gggttcaagc aattctcatg cctcagaccc ccaagtaact gggattatag	1080
gtgtgtgctg ccacactaca cccagctaatt ttttgtatth tttgatagag acaggtttcc	1140
ccatgttggc caggctggac tcgaactcct gacctcaagt tatcctcctg tctcggcctc	1200
ccaaagtgct gggattacag tcatgagcca ccatgcctgg cccaatagag ctattattat	1260
ggagcatctt tcagttgtga aaattggcat ggaaactctc catccctggg gagaacagtt	1320
atttcctctg ttattttcct acccagtcta taaaaagaga gtgattcatt ttctctacca	1380
aatctactgt ctctgcccac actttgctga agactattct aactaaagga aacacagttt	1440

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aaaaagaatg caatatagtg aagtagttaa taataaagac tccattttta aaagtctgct      1500
ggaagtttgg ttgggattgc actgaatcta tagagcaatt ggggagtatt gacatatcaa      1560
caatattgag ttttctaadc caagaacata atatctatct ttaaaatctt cttcaaaatc      1620
tttaaatctt taaattgtat tttgtagttt ttgggtgttta agtcttgcac atattttgtc      1680
agatttattc caaagtattt cacgggttct tttt                                     1714

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<210> 247
<211> 271
<212> PRT
<213> Homo sapiens

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<220>
<221> MISC_FEATURE
<222> (1)..(70)
<223> Region Encoded by Exon 1

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<220>
<221> MISC_FEATURE
<222> (71)..(106)
<223> Region Encoded by Exon 2

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<220>
<221> MISC_FEATURE
<222> (107)..(150)
<223> Region Encoded by Exon 3

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<220>
<221> MISC_FEATURE
<222> (151)..(185)
<223> Region Encoded by Exon 4

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<220>
<221> MISC_FEATURE
<222> (186)..(232)
<223> Region Encoded by Exon 5

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<220>
<221> MISC_FEATURE
<222> (233)..(271)
<223> Region Encoded by Exon 6v4

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<400> 247

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Met Asn Ile Ile Leu Glu Ile Leu Leu Leu Leu Ile Thr Ile Ile Tyr
1           5           10          15

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Ser Tyr Leu Glu Ser Leu Val Lys Phe Phe Ile Pro Gln Arg Arg Lys
20 25 30

Ser Val Ala Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
35 40 45

Gly Arg Gln Thr Thr Tyr Glu Phe Ala Lys Arg Gln Ser Ile Leu Val
50 55 60

Leu Trp Asp Ile Asn Lys Arg Gly Val Glu Glu Thr Ala Ala Glu Cys
65 70 75 80

Arg Lys Leu Gly Val Thr Ala His Ala Tyr Val Val Asp Cys Ser Asn
85 90 95

Arg Glu Glu Ile Tyr Arg Ser Leu Asn Gln Val Lys Lys Glu Val Gly
100 105 110

Asp Val Thr Ile Val Val Asn Asn Ala Gly Thr Val Tyr Pro Ala Asp
115 120 125

Leu Leu Ser Thr Lys Asp Glu Glu Ile Thr Lys Thr Phe Glu Val Asn
130 135 140

Ile Leu Gly His Phe Trp Ile Thr Lys Ala Leu Leu Pro Ser Met Met
145 150 155 160

Glu Arg Asn His Gly His Ile Val Thr Val Ala Ser Val Cys Gly His
165 170 175

Glu Gly Ile Pro Tyr Leu Ile Pro Tyr Cys Ser Ser Lys Phe Ala Ala
180 185 190

Val Gly Phe His Arg Gly Leu Thr Ser Glu Leu Gln Ala Leu Gly Lys
195 200 205

Thr Gly Ile Lys Thr Ser Cys Leu Cys Pro Val Phe Val Asn Thr Gly
210 215 220

Phe Thr Lys Asn Pro Ser Thr Arg Leu Trp Pro Val Leu Glu Thr Asp
225 230 235 240

Glu Val Val Arg Ser Leu Ile Asp Gly Ile Leu Thr Asn Lys Lys Met
245 250 255

Ile Phe Val Pro Ser Tyr Ile Asn Ile Phe Leu Arg Leu Gln Lys
260 265 270

<210> 248
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (2)..(21)
<223> n = A, T, C, or G

<400> 248
gnnnnnnnnnnn nnnnnnnnnnn ngg 23

<210> 249
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (1)..(21)
<223> n = A, T, C, or G

<400> 249
nnnnnnnnnnnn nnnnnnnnnnn ngg 23

<210> 250
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
 <221> misc_feature
 <222> (3)..(23)
 <223> n = A, T, C, or G

 <400> 250
 ggnnnnnnnnnn nnnnnnnnnnn nnnngg 25

 <210> 251
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 251
 atgaacatca tcctagaaat ccttc 25

 <210> 252
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 252
 atcatgcata catctctggc tggag 25

 <210> 253
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

 <400> 253
 atcagaactt caggccttgg 20

 <210> 254
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 254
gcaaagccat gaacatcatc c 21

<210> 255
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 255
tcttgatgta gtgggagtcg gatt 24

<210> 256
<211> 82
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 256
guuggaacca uucaaaacag cauagcaagu uaaaauaagg cuaguccguu aucaacuuga 60

aaaaguggca ccgagucggu gc 82

<210> 257
<211> 76
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 257
guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc cguuaucaac uugaaaaagu 60

ggcaccgagu cggugc 76

<210> 258
<211> 86
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 258
guuuuagagc uaugcuggaa acagcauagc aaguuaaaau aaggcuaguc cguuaucaac 60

uugaaaaagu ggcaccgagu cggugc

86

<210> 259
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 259
ggcagaccgt tctcatcacg

20

<210> 260
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 260
ctttaccagt gactccaggt

20

<210> 261
<211> 20
<212> DNA
<213> Artificial Sequence

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<210> 1202
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<210> 1203
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<210> 1211

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

<210> 1212

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<210> 1215

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<210> 1216

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<210> 1225
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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

<210> 1244

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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

<210> 1245
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aaggcuaguc cguuaucaac uugaaaaagu ggcaccgagu cggugc 106

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